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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,118	09/23/2003	Steven R. Knight	2802-135-079	9506

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EXAMINER

KURTZ, BENJAMIN M

ART UNIT PAPER NUMBER

1723

DATE MAILED: 01/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/669,118	KNIGHT, STEVEN R.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Benjamin Kurtz	1723	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 9/23/2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☒ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

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## **DETAILED ACTION**

### ***Oath/Declaration***

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: The applicant claims priority to provisional application 60/479,032. Provisional application 60/479,032 is by a separate inventive entity and the disclosure is not expressly incorporated herein. It is believed the applicant desires to claim priority to provisional application 60/479,031. Correction is required of the oath or declaration, the specification, and the information disclosure statement.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maxwell (6139738) in view of Gutkowski (2955712) in view of Bradford (5951862).
4. Referring to claim 1, Maxwell (738) discloses a filter element (78) comprising: a ring of filtration media (80) circumscribing a central axis and defining a central cavity (82), the filtration media ring having a first and second end (fig. 2, column 5, lines 3-8). A first circular end cap (88) having an inner surface sealingly bonded to the first end of the media ring (80) (column 5, lines 12-17), the first end cap (88) including an annular body portion bounding a central opening into the central cavity (82) of the media (80)

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(fig. 2, column 5, lines 12-17). A second circular end cap (94) sealingly bonded to the second end of the media ring (80) (column 5, lines 20-22), a retaining device (98) fixed to and integral with the second end cap (94) and projecting outwardly therefrom (column 5, lines 25-27). Maxwell (738) does not disclose a vent orifice in the annular body of the first end cap (88) into the central cavity (82) or an orientation device fixed to and integral with the first end cap and projecting radially outward therefrom. Bradford (862) discloses a filter element (22) including a vent orifice (48) into the central cavity (46) in the annular body of a first end cap (24) (fig. 1, column 2, lines 54-63). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the filter element as taught by Maxwell (738) with the filter element as taught by Bradford (862). The vent (48) allows air collected in the chamber (46) to escape at a controlled rate in the form of a stream of small air bubbles (column 2, lines 54-63). Gutkowski (712) discloses a filter element (59) with an orientation device (78) fixed to and integral with a first end cap (34) and projecting radially outward therefrom (fig. 2,3,8, column 4, lines 1-7). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the filter element as taught by Maxwell (738) with the filter element as taught by Gutkowski (712). Regardless of the manner in which the threads of the filter housing (11) are started in the threads of the head socket (10) the filter will arrive in the correct position (column 4, lines 49-53).

5. Referring to claim 2, Maxwell (738) further discloses the filter element including a flexible seal (92) bounding the central opening of the first end cap (88) (column 5, lines 14-17

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6. Referring to claim 3, Maxwell (738) further discloses the flexible seal (92) being unitary with the first end cap (88) (column 5, lines 14-17).
7. Referring to claim 4, Maxwell (738) further discloses the retaining device (98) is unitary with the second end cap (94) (column 5, lines 26-28).
8. Referring to claim 5, Maxwell (738) further discloses the first end cap includes a sleeve outwardly bounding the peripheral edge of the first end cap (88) and extending from the first end cap (88) toward the second end cap (94) (fig. 2) but does not disclose the orientation device being unitary with the sleeve of the first end cap (88) and projecting radially outward therefrom. Gutkowski (712) discloses an orientation device being unitary with a sleeve (35) of a first end cap (34) and projecting radially outward therefrom (column 4, lines 1-8). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the filter element as taught by Maxwell (738) with the filter element as taught by Gutkowski (712). Regardless of the manner in which the threads of the filter housing (11) are started in the threads of the head socket (10) the filter will arrive in the correct position (column 4, lines 49-53).
9. Referring to claim 6, Maxwell (738) further discloses an orientation device (114) unitary with the end cap (94) (column 5, lines 53-67).
10. Referring to claim 7, Maxwell (738) further discloses the retaining device (98) comprises a plurality of individual elements (114) fixed to and integral with the second end cap (94) and projecting radially outward therefrom (column 5, lines 58-62).
11. Referring to claim 8, Maxwell (738) further discloses the retaining device (98) projects axially outward from the second end cap (94) (column 5, lines 26-28).

12. Referring to claim 9, Maxwell (738) further discloses the retaining device (98) projects radially outward from the second end cap (94) (column 5, lines 58-62).

13. Referring to claim 10, Maxwell (738) further discloses the second end cap (94) includes a sleeve outwardly bounding the peripheral edge of the second end cap (94) and extending a short distance from the second end cap (94) toward the first end cap (88), the retaining device (98) being unitary with the sleeve of the second end cap (94) and projecting radially outward therefrom (column 5, lines 26-28, 58-62).

14. Referring to claim 11, Maxwell (738) discloses a filter assembly (10) comprising: a housing (12) having a threaded open end (34) a closed end (32) and a central axis (fig. 2, column 4, lines 30-33), a first port (16a) to direct fluid into the housing and a second port (18a) to direct fluid from the housing (column 4, lines 13-17). The housing including a cup shaped cover (14&15) with threads (35); the cover (14&15) including retaining means (118) internally of the cover (14&15) (fig. 4, column 5, lines 62-65). A filter element removeably disposed within the housing (14&15) (column 5, lines 1-3). The filter element including a ring of filtration media (80) circumscribing a central axis and defining a central cavity (82) (column 5, lines 6-8). The filter ring (80) having a first and second end (fig. 2), a first end cap (88) at the first end of the media ring (80) and an annular body portion bounding a central opening of the first end cap (88) for receiving a cylindrical component (93) and an annular seal (92) bounding the central opening of the first end cap (88) (column 5, lines 12-19). A second end cap (94) at the second end of the media ring (80) includes retaining means (98) the retaining means of the second end cap (94) inter engage with the retaining means (118) of the cover (14&15). Maxwell

(738) does not disclose the housing (12) including orientation means integral with an internal surface of the housing (12) and projecting outwardly therefrom, or a vent orifice in the first end cap (88) into the central cavity (82), or an orientation means integral with the first end cap (88) cooperating with the orientation means of the housing (12).

15. Bradford (862) discloses a filter element (22) including a vent orifice (48) into the central cavity (46) in the annular body of a first end cap (24) (fig. 1, column 2, lines 54-63). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the filter as taught by Maxwell (738) with the filter as taught by Bradford (862). The vent (48) allows air collected in the chamber (46) to escape at a controlled rate in the form of a stream of small air bubbles (column 2, lines 54-63).

16. Gutkowski (712) discloses a housing (10) including orientation means (79) integral with an internal surface (80) of the housing (10) and projecting outwardly therefrom (fig. 6,7,8, column 4, lines 5-7). Gutkowski (712) also discloses orientation means (78) integral with a first cap (34) projecting outwardly therefrom (column 4, lines 1-5), the orientation means (78) of the first cap (34) cooperating with the orientation means (79) of the housing (10) to rotationally orient the filter element (59) with respect to the housing (11) (column 4, lines 1-7). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the filter as taught by Maxwell (738) with the filter as taught by Gutkowski (712). Regardless of the manner in which the threads of the filter housing (11) are started in the threads of the head socket (10) the filter will arrive in the correct position (column 4, lines 49-53).



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17. Referring to claim 12, Maxwell (738) discloses a filter assembly (10) comprising: a housing (12) having a threaded open end (34) a closed end (32) and a central axis (fig. 2, column 4, lines 30-33), a first port (16a) to direct fluid into the housing and a second port (18a) to direct fluid from the housing (column 4, lines 13-17). The housing including a cup shaped cover (14&15) with threads (35); the cover (14&15) including a retaining device (118) internally of the cover (14&15) and projecting radially outwardly therefrom (fig. 4, column 5, lines 62-65). A filter element removeably disposed within the housing (14&15) (column 5, lines 1-3). The filter element including a ring of filtration media (80) circumscribing a central axis and defining a central cavity (82) (column 5, lines 6-8). The filter ring (80) having a first and second end (fig. 2), a first end cap (88) at the first end of the media ring (80) and an annular body portion bounding a central opening of the first end cap (88) for receiving a cylindrical component (93) and an annular seal (92) bounding the central opening of the first end cap (88) (column 5, lines 12-19). A second end cap (94) at the second end of the media ring (80) includes a retaining device (98) integral with the second end cap (94) and projecting outwardly therefrom (column 5, lines 58-62) the retaining device of the second end cap (94) inter engage with the retaining device (118) of the cover (14&15). Maxwell (738) does not disclose the housing (12) including an orientation device integral with an internal surface of the housing (12) and projecting radially inwardly therefrom, or a vent orifice in the first end cap (88) into the central cavity (82), or an orientation device integral with the first end cap (88) projecting radially outwardly therefrom and cooperating with the orientation device of the housing (12).

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18. Bradford (862) discloses a filter element (22) including a vent orifice (48) into the central cavity (46) in the annular body of a first end cap (24) (fig. 1, column 2, lines 54-63). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the filter as taught by Maxwell (738) with the filter as taught by Bradford (862). The vent (48) allows air collected in the chamber (46) to escape at a controlled rate in the form of a stream of small air bubbles (column 2, lines 54-63).

19. Gutkowski (712) discloses a housing (10) including an orientation device (79) integral with an internal surface (80) of the housing (10) and projecting radially inward therefrom (fig. 1 shows an axis (5) containing inlet and outlet ports (15) and (14), the orientation device (79) projects radially with respect to this axis into the housing (10)) (fig.1&2 column 4, lines 5-7). Gutkowski (712) also discloses an orientation device (78) integral with a first cap (34) projecting radially outwardly therefrom (column 4, lines 1-5), the orientation device (78) of the first cap (34) cooperating with the orientation device (79) of the housing (10) to rotationally orient the filter element (59) with respect to the housing (11) (column 4, lines 1-7). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the filter as taught by Maxwell (738) with the filter as taught by Gutkowski (712). Regardless of the manner in which the threads of the filter housing (11) are started in the threads of the head socket (10) the filter will arrive in the correct position (column 4, lines 49-53).

20. Referring to claim 13, Maxwell (738) further discloses the retaining device (118) on the cover (14&15) comprises a rib, ridge or tab (the protrusions between the grooves

(118) are ribs) (fig. 6) and the retaining device (114) on the second end cap (94) comprises a pair of closely-spaced ribs, ridges or tabs for each retaining device on the cover (fig. 7).

21. Referring to claim 14, Gutkowski (712) further discloses the orientation device (78) on the first end cap (34) comprises a rib, ridge, or tab (fig. 6) and the orientation device (79) on the housing (10) comprises a rib, ridge or tab (fig. 5&7).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Kurtz whose telephone number is 571-272-8211. The examiner can normally be reached on Monday through Friday 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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